G 12

```
            JJJ     000000000     BBBBBBBBBBBB        CCCCCCCCCCC   TTTTTTTTTTTTTTT  LLL
            JJJ     000000000     BBBBBBBBBBBB        CCCCCCCCCCC   TTTTTTTTTTTTTTT  LLL
            JJJ     000000000     BBBBBBBBBBBB        CCCCCCCCCCC   TTTTTTTTTTTTTTT  LLL
            JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
            JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
            JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
            JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
            JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
            JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
            JJJ  000         000  BBBBBBBBBBBB     CCC                    TTT        LLL
            JJJ  000         000  BBBBBBBBBBBB     CCC                    TTT        LLL
            JJJ  000         000  BBBBBBBBBBBB     CCC                    TTT        LLL
JJJ         JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
JJJ         JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
JJJ         JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
JJJ         JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
JJJ         JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
JJJ         JJJ  000         000  BBB         BBB  CCC                    TTT        LLL
   JJJJJJJJJ        000000000     BBBBBBBBBBBB        CCCCCCCCCCC         TTT        LLLLLLLLLLLLLLL
   JJJJJJJJJ        000000000     BBBBBBBBBBBB        CCCCCCCCCCC         TTT        LLLLLLLLLLLLLLL
   JJJJJJJJJ        000000000     BBBBBBBBBBBB        CCCCCCCCCCC         TTT        LLLLLLLLLLLLLLL
```

```
_$2

Val
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```

```
                                                   L 13
**FILE**ID**CHECKPROT


  CCCCCCCC  HH      HH  EEEEEEEEEE    CCCCCCCC  KK      KK  PPPPPPPP    RRRRRRRR      OOOOOO    TTTTTTTTTT
  CCCCCCCC  HH      HH  EEEEEEEEEE    CCCCCCCC  KK      KK  PPPPPPPP    RRRRRRRR      OOOOOO    TTTTTTTTTT
CC          HH      HH  EE          CC          KK      KK  PP      PP  RR      RR  OO      OO      TT
CC          HH      HH  EE          CC          KK      KK  PP      PP  RR      RR  OO      OO      TT
CC          HH      HH  EE          CC          KK    KK    PP      PP  RR      RR  OO      OO      TT
CC          HH      HH  EE          CC          KK    KK    PP      PP  RR      RR  OO      OO      TT
CC          HHHHHHHHHH  EEEEEEEE    CC          KKKKKK      PPPPPPPP    RRRRRRRR    OO      OO      TT
CC          HHHHHHHHHH  EEEEEEEE    CC          KKKKKK      PPPPPPPP    RRRRRRRR    OO      OO      TT
CC          HH      HH  EE          CC          KK    KK    PP          RR  RR      OO      OO      TT
CC          HH      HH  EE          CC          KK    KK    PP          RR  RR      OO      OO      TT
CC          HH      HH  EE          CC          KK      KK  PP          RR    RR    OO      OO      TT        ....
CC          HH      HH  EE          CC          KK      KK  PP          RR    RR    OO      OO      TT        ....
  CCCCCCCC  HH      HH  EEEEEEEEEE    CCCCCCCC  KK      KK  PP          RR      RR    OOOOOO        TT        ....
  CCCCCCCC  HH      HH  EEEEEEEEEE    CCCCCCCC  KK      KK  PP          RR      RR    OOOOOO        TT        ....

LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
0 MODULE CHECKPROT(%TITLE 'Queue protection checks'
0                 IDENT = 'V04-000'
0                 ) =
1 BEGIN
1
1 !
1 !****************************************************************************
1 !*                                                                          *
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1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
1 !*                                                                          *
1 !*                                                                          *
1 !****************************************************************************
1 !
1
1 !++
1 ! FACILITY:
1 !       Job controller.
1 !
1 ! ABSTRACT:
1 !       This module contains the routines that interface to the $CHKPRO service
1 !       for queue protection checking.
1 !
1 ! ENVIRONMENT:
1 !       VAX/VMS user and kernel mode.
1 !--
1 !
1 ! AUTHOR: M. Jack, CREATION DATE: 16-Feb-1982
1 !
1 ! MODIFIED BY:
1 !
1 !       V03-001 MLJ0114         Martin L. Jack, 23-Jun-1983  4:57
1 !               Changes for job controller baselevel.
1 !
1 !**
```

```
:     52         0051   1 REQUIRE 'SRC$:JOBCTLDEF';
:     53         1092   1
:     54         1093   1
:     55         1094   1 FORWARD ROUTINE
:     56         1095   1         CHKPRO,
:     57         1096   1         CHECK_R_ACCESS,
:     58         1097   1         CHECK_W_ACCESS,
:     59         1098   1         CHECK_E_ACCESS,
:     60         1099   1         CHECK_D_ACCESS;
```

```
1 GLOBAL ROUTINE CHKPRO(ACCESS,OWNER,PROTECTION)=
1
1 !++
1 !
1 ! FUNCTIONAL DESCRIPTION:
1 !       This routine executes a call to the $CHKPRO service.
1 !
1 ! INPUT PARAMETERS:
1 !       ACCESS          - Desired access.
1 !       OWNER           - Object ownership.
1 !       PROTECTION      - Object protection.
1 !
1 ! IMPLICIT INPUTS:
1 !       MBX             - Pointer to buffered mailbox message.
1 !
1 ! OUTPUT PARAMETERS:
1 !       NONE
1 !
1 ! IMPLICIT OUTPUTS:
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 !       True if access is granted, false if denied.
1 !
1 ! SIDE EFFECTS:
1 !       NONE
1 !
1 !--
1
2 BEGIN
2 LOCAL
2       ITMLST:         BBLOCK[64],     ! $CHKPRO item list
2       RIGHTS:         VECTOR[2];      ! Rights vector
2
2
2 ! OPER privilege implicitly grants all types of access.
2 !
2 IF .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
2 THEN
2     RETURN TRUE;
2
2
2 ! Construct the item list and call $CHKPRO to check the access.
2 !
2 RIGHTS[0] = .MBX[ACM$L_UIC];
2 RIGHTS[1] = 0;
2 ITMLST[0,0,16,0] = 4;                                   ! Desired access
2 ITMLST[2,0,16,0] = CHP$_ACCESS;
2 ITMLST[4,0,32,0] = ACCESS;
2 ITMLST[8,0,32,0] = 0;
2 ITMLST[12,0,16,0] = 8;                                  ! Requestor's privileges
2 ITMLST[14,0,16,0] = CHP$_PRIV;
2 ITMLST[16,0,32,0] = MBX[ACM$Q_PRVMSK];
2 ITMLST[20,0,32,0] = 0;
2 ITMLST[24,0,16,0] = 8;                                  ! Requestor's UIC
2 ITMLST[26,0,16,0] = CHP$_RIGHTS;
2 ITMLST[28,0,32,0] = RIGHTS;
```

```
;  119        1157  2 ITMLST[32,0,32,0] = 0;
;  120        1158  2 ITMLST[36,0,16,0] = 4;                              ! Object's UIC
;  121        1159  2 ITMLST[38,0,16,0] = CHP$_OWNER;
;  122        1160  2 ITMLST[40,0,32,0] = OWNER;
;  123        1161  2 ITMLST[44,0,32,0] = 0;
;  124        1162  2 ITMLST[48,0,16,0] = 4;                              ! Object's protection
;  125        1163  2 ITMLST[50,0,16,0] = CHP$_PROT;
;  126        1164  2 ITMLST[52,0,32,0] = PROTECTION;
;  127        1165  2 ITMLST[56,0,32,0] = 0;
;  128        1166  2 ITMLST[60,0,32,0] = 0;                              ! Trailing zero
;  129        1167  2
;  130        1168  2
;  131        1169  3 $CHKPRO(ITMLST=ITMLST)
;  132        1170  1 END;


                                                  .TITLE  CHECKPROT Queue protection checks
                                                  .IDENT  \V04-000\

                                                  .PSECT  COMMON,NOEXE,  OVR,2

                                       00000 DIAG_STORAGE_BASE:
                                                  .BLKB   0
                                       00000 DIAG_TRACE:
                                                  .BLKB   96
                                       00060 DIAG_COUNT:
                                                  .BLKB   96
                                       000C0 DIAG_FLAGS:
                                                  .BLKB   4
                                       000C4 WORK_AREA:
                                                  .BLKB   44
                                       000F0 SNDJBC_COUNT:
                                                  .BLKB   132
                                       00174 GETQUI_COUNT:
                                                  .BLKB   40
                                       0019C SNDACC_COUNT:
                                                  .BLKB   28
                                       001B8 SNDSMB_COUNT:
                                                  .BLKB   72
                                       00200 DIAG_STORAGE_END:
                                                  .BLKB   0
                                       00200 FLAGS:  .BLKB   4
                                       00204 IMAGE_DUMP_STSFLG:
                                                  .BLKB   4
                                       00208 THIS_SYSID:
                                                  .BLKB   6
                                       0020E      .BLKB   2
                                       00210 CUR_TIME:
                                                  .BLKB   8
                                       00218 HOURLY_TIME:
                                                  .BLKB   8
                                       00220 HOURLY_PARAMS:
                                                  .BLKB   20
                                       00234 SYMBIONT_COUNT:
                                                  .BLKB   4
                                       00238 QUEUE_REFERENCE_COUNT:
                                                  .BLKB   4
```

```
0023C MBX_MESSAGE_COUNT:
              .BLKB     4
00240 MBX:    .BLKB     4
00244 MBX_END:.BLKB     4
00248 MEMORY_FREE_QUEUES:
              .BLKB     40
00270 NONAST_WORK_QUEUE:
              .BLKB     8
00278 BCB_FREE_LIST:
              .BLKB     4
0027C BCB_ACTIVE_LIST:
              .BLKB     4
00280 GQL_FREE_LIST:
              .BLKB     4
00284 GQL_ACTIVE_LIST:
              .BLKB     4
00288 OPEN_GETQUI_LIST:
              .BLKB     4
0028C PROCESS_DATA_LIST:
              .BLKB     4
00290 SYMBIONT_CONTROL:
              .BLKB     4
00294 SPARE_AREA:
              .BLKB     12
002A0 REMOTE_REQUEST_LKSB:
              .BLKB     8
002A8 QUEUE_FILE_LKSB:
              .BLKB     8
002B0 QUEUE_LOCK_LKSB:
              .BLKB     8
002B8 RSP:    .BLKB     8
002C0 JBC_PRIORITY:
              .BLKB     4
002C4 JBC_PRIVILEGES:
              .BLKB     8
002CC JBC_QUOTAS:
              .BLKB     66
0030E         .BLKB     2
00310 JBC_UIC:.BLKB     4
00314 QUEUE_FAB:
              .BLKB     80
00364 QUEUE_RAB:
              .BLKB     68
003A8 QUEUE_NAM:
              .BLKB     96
00408 QUEUE_XAB:
              .BLKB     88
00460 QUEUE_RSA:
              .BLKB     255
0055F         .BLKB     1
00560 QUEUE_ALQ:
              .BLKB     4
00564 QUEUE_MBF:
              .BLKB     1
00565         .BLKB     3
00568 ACCOUNTING_FABS:
              .BLKB     8
```

```
00570 ACCOUNTING_RABS:
                .BLKB   8
00578 ACCOUNT_FAB_A:
                .BLKB   80
005C8 ACCOUNT_RAB_A:
                .BLKB   68
0060C ACCOUNT_NAM_A:
                .BLKB   96
0066C ACCOUNT_RSA_A:
                .BLKB   255
0076B           .BLKB   1
0076C ACCOUNT_FAB_B:
                .BLKB   80
007BC ACCOUNT_RAB_B:
                .BLKB   68
00800 ACCOUNT_NAM_B:
                .BLKB   96
00860 ACCOUNT_RSA_B:
                .BLKB   255
0095F           .BLKB   1
00960 DIAG_FAB:
                .BLKB   80
009B0 DIAG_RAB:
                .BLKB   68
009F4 MBX_CHAN:
                .BLKB   4
009F8 MBX_IOSB:
                .BLKB   8
00A00 MBX_BUFFER:
                .BLKB   1024
00E00 VALUE_STORAGE_BASE:
                .BLKB   0
00E00 ITEM_PRESENT:
                .BLKB   32
00E20 VALUE_GETQUI_BASE:
                .BLKB   0
00E20 VALUE_ACCOUNTING_MESSAGE:
                .BLKB   6
00E26 VALUE_ACCOUNTING_TYPES:
                .BLKB   4
00E2A VALUE_AFTER_TIME:
                .BLKB   8
00E32 VALUE_ALIGNMENT_PAGES:
                .BLKB   1
00E33 VALUE_BASE_PRIORITY:
                .BLKB   1
00E34 VALUE_BATCH_INPUT:
                .BLKB   6
00E3A VALUE_BATCH_OUTPUT:
                .BLKB   10
00E44 VALUE_BUFFER_COUNT:
                .BLKB   1
00E45 VALUE_CHARACTERISTIC_NAME:
                .BLKB   6
00E4B VALUE_CHARACTERISTIC_NUMBER:
                .BLKB   1
00E4C VALUE_CHARACTERISTICS:
```

```
                .BLKB   16
00E5C VALUE_CHECKPOINT_DATA:
                .BLKB   6
00E62 VALUE_CLI:
                .BLKB   6
00E68 VALUE_CPU_DEFAULT:
                .BLKB   4
00E6C VALUE_CPU_LIMIT:
                .BLKB   4
00E70 VALUE_DESTINATION_QUEUE:
                .BLKB   8
00E78 VALUE_DEVICE_NAME:
                .BLKB   6
00E7E VALUE_ENTRY_NUMBER:
                .BLKB   4
00E82 VALUE_ENTRY_NUMBER_OUTPUT:
                .BLKB   10
00E8C VALUE_EXTEND_QUANTITY:
                .BLKB   2
00E8E VALUE_FILE_COPIES:
                .BLKB   1
00E8F VALUE_FILE_IDENTIFICATION:
                .BLKB   36
00EB3 VALUE_FILE_SETUP_MODULES:
                .BLKB   6
00EB9 VALUE_FILE_SPECIFICATION:
                .BLKB   6
00EBF VALUE_FIRST_PAGE:
                .BLKB   4
00EC3 VALUE_FORM_DESCRIPTION:
                .BLKB   6
00EC9 VALUE_FORM_LENGTH:
                .BLKB   1
00ECA VALUE_FORM_MARGIN_BOTTOM:
                .BLKB   1
00ECB VALUE_FORM_MARGIN_LEFT:
                .BLKB   2
00ECD VALUE_FORM_MARGIN_RIGHT:
                .BLKB   2
00ECF VALUE_FORM_MARGIN_TOP:
                .BLKB   1
00ED0 VALUE_FORM_NAME:
                .BLKB   6
00ED6 VALUE_FORM_NUMBER:
                .BLKB   4
00EDA VALUE_FORM:
                .BLKB   8
00EE2 VALUE_FORM_SETUP_MODULES:
                .BLKB   6
00EE8 VALUE_FORM_STOCK:
                .BLKB   6
00EEE VALUE_FORM_WIDTH:
                .BLKB   2
00EF0 VALUE_GENERIC_TARGET:
                .BLKB   996
012D4 VALUE_JOB_COPIES:
                .BLKB   1
```

```
012D5 VALUE_JOB_LIMIT:
              .BLKB   1
012D6 VALUE_JOB_NAME:
              .BLKB   6
012DC VALUE_JOB_RESET_MODULES:
              .BLKB   6
012E2 VALUE_JOB_SIZE_MAXIMUM:
              .BLKB   4
012E6 VALUE_JOB_SIZE_MINIMUM:
              .BLKB   4
012EA VALUE_JOB_STATUS_OUTPUT:
              .BLKB   10
012F4 VALUE_LAST_PAGE:
              .BLKB   4
012F8 VALUE_LIBRARY_SPECIFICATION:
              .BLKB   6
012FE VALUE_LOG_QUEUE:
              .BLKB   8
01306 VALUE_LOG_SPECIFICATION:
              .BLKB   6
0130C VALUE_NOTE:
              .BLKB   6
01312 VALUE_OPERATOR_REQUEST:
              .BLKB   6
01318 VALUE_OWNER_UIC:
              .BLKB   4
0131C VALUE_PAGE_SETUP_MODULES:
              .BLKB   6
01322 VALUE_PARAMETER_1:
              .BLKB   6
01328 VALUE_PARAMETER_2:
              .BLKB   6
0132E VALUE_PARAMETER_3:
              .BLKB   6
01334 VALUE_PARAMETER_4:
              .BLKB   6
0133A VALUE_PARAMETER_5:
              .BLKB   6
01340 VALUE_PARAMETER_6:
              .BLKB   6
01346 VALUE_PARAMETER_7:
              .BLKB   6
0134C VALUE_PARAMETER_8:
              .BLKB   6
01352 VALUE_PRIORITY:
              .BLKB   1
01353 VALUE_PROCESSOR:
              .BLKB   6
01359 VALUE_PROTECTION:
              .BLKB   4
0135D VALUE_QUEUE:
              .BLKB   6
01363 VALUE_QUEUE_FILE_SPECIFICATION:
              .BLKB   6
01369 VALUE_RELATIVE_PAGE:
              .BLKB   4
0136D VALUE_RESERVED_INPUT_1:
```

```
                                                 .BLKB   1
                                   0136E VALUE_RESERVED_INPUT_2:
                                                 .BLKB   2
                                   01370 VALUE_RESERVED_INPUT_3:
                                                 .BLKB   4
                                   01374 VALUE_RESERVED_INPUT_4:
                                                 .BLKB   6
                                   0137A VALUE_RESERVED_OUTPUT_1:
                                                 .BLKB   10
                                   01384 VALUE_RESERVED_OUTPUT_2:
                                                 .BLKB   10
                                   0138E VALUE_SEARCH_STRING:
                                                 .BLKB   6
                                   01394 VALUE_SCSNODE_NAME:
                                                 .BLKB   6
                                   0139A VALUE_WSDEFAULT:
                                                 .BLKB   2
                                   0139C VALUE_WSEXTENT:
                                                 .BLKB   2
                                   0139E VALUE_WSQUOTA:
                                                 .BLKB   2
                                   013A0 VALUE_STORAGE_END:
                                                 .BLKB   0

                                         JBC$_CLOSEOUT=     266328
                                         JBC$_NOCMKRNL=     272388
                                         JBC$_NOOPER=       272532
                                         JBC$_NOSYSNAM=     272404
                                         JBC$_OPENIN=       266392
                                         JBC$_OPENOUT=      266400
                                         JBC$_READERR=      266416
                                         JBC$_WRITEERR=     266448
                                                 .EXTRN  SYS$CHKPRO

                                                 .PSECT  CODE,NOWRT,2

                              0000 00000         .ENTRY  CHKPRO, Save nothing                        ; 1100
               5E        B8   AE 9E 00002        MOVAB   -72(SP), SP                                 ;
               50 00000000'  EF D0 00006        MOVL    MBX, R0                                     ; 1137
 04       06   A0            02 E1 0000D        BBC     #2, 6(R0), 1$                               ;
               50            01 D0 00012        MOVL    #1, R0                                      ; 1139
                                04 00015        RET                                                 ;
               6E        0C   A0 D0 00016 1$:    MOVL    12(R0), RIGHTS                              ; 1144
                         04   AE D4 0001A        CLRL    RIGHTS+4                                    ; 1145
          08   AE 00010004   8F D0 0001D        MOVL    #65540, ITMLST                              ; 1146
          0C   AE       04   AC 9E 00025        MOVAB   ACCESS, ITMLST+4                            ; 1148
                         10   AE D4 0002A        CLRL    ITMLST+8                                    ; 1149
          14   AE 00030008   8F D0 0002D        MOVL    #196616, ITMLST+12                          ; 1150
          18   AE       04   A0 9E 00035        MOVAB   4(R0), ITMLST+16                            ; 1152
                         1C   AE D4 0003A        CLRL    ITMLST+20                                   ; 1153
          20   AE 00060008   8F D0 0003D        MOVL    #393224, ITMLST+24                          ; 1154
          24   AE            6E 9E 00045        MOVAB   RIGHTS, ITMLST+28                           ; 1156
                         28   AE D4 00049        CLRL    ITMLST+32                                   ; 1157
          2C   AE 000C0004   8F D0 0004C        MOVL    #786436, ITMLST+36                          ; 1158
          30   AE       08   AC 9E 00054        MOVAB   OWNER, ITMLST+40                            ; 1160
                         34   AE D4 00059        CLRL    ITMLST+44                                   ; 1161
          38   AE 000D0004   8F D0 0005C        MOVL    #851972, ITMLST+48                          ; 1162
```

```
                    3C    AE         0C    AC  9E 00064          MOVAB   PROTECTION, ITMLST+52                          ; 1164
                                     40    AE  7C 00069          CLRQ    ITMLST+56                                      ; 1165
                                     08    AE  9F 0006C          PUSHAB  ITMLST                                         ; 1169
             00000000G    00               01  FB 0006F          CALLS   #1, SYS$CHKPRO                                 ;
                                               04 00076          RET                                                    ; 1170

; Routine Size:  119 bytes,    Routine Base:  CODE + 0000
```

```
1 GLOBAL ROUTINE CHECK_R_ACCESS(SMQ,SJH)=
1
1 !++
1 !
1 ! FUNCTIONAL DESCRIPTION:
1 !       This routine checks whether the requestor has R access to the specified
1 !       job in the specified queue.  OPER privilege and E access to the queue
1 !       implicitly grant R access.
1 !
1 ! INPUT PARAMETERS:
1 !       SMQ             - Pointer to SMQ.
1 !       SJH             - Pointer to SJH.
1 !
1 ! IMPLICIT INPUTS:
1 !       MBX             - Pointer to buffered mailbox message.
1 !
1 ! OUTPUT PARAMETERS:
1 !       NONE
1 !
1 ! IMPLICIT OUTPUTS:
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 !       True if access is granted, false if denied.
1 !
1 ! SIDE EFFECTS:
1 !       NONE
1 !
1 !--
1
2 BEGIN
2 MAP
2       SMQ:            REF BBLOCK,     ! Pointer to SMQ
2       SJH:            REF BBLOCK;     ! Pointer to SJH
2
2
2 ! Test for R access to the job.
2 !
2 IF CHKPRO(%B'0001', .SJH[SJH$L_UIC], .SMQ[SMQ$W_PROTECTION])
2 THEN
2     RETURN TRUE;
2
2
2 ! Test for E access to the queue.
2 !
2 IF CHKPRO(%B'0100', .SMQ[SMQ$L_OWNER_UIC], .SMQ[SMQ$W_PROTECTION])
2 THEN
2     RETURN TRUE;
2
2
2 FALSE
1 END;
```

```
                                   0004 00000          .ENTRY  CHECK_R_ACCESS, Save R2                  ; 1171
                      52      04  AC   D0 00002          MOVL    SMQ, R2                                  ; 1209
                      7E    0104  C2   3C 00006          MOVZWL  260(R2), -(SP)                           ;
                      50      08  AC   D0 0000B          MOVL    SJH, R0                                  ;
                            0144  C0   DD 0000F          PUSHL   324(R0)                                  ;
                                  01   DD 00013          PUSHL   #1                                       ;
               FF6F   CF          03   FB 00015          CALLS   #3, CHKPRO                               ;
                      13          50   E8 0001A          BLBS    R0, 1$                                   ;
                      7E    0104  C2   3C 0001D          MOVZWL  260(R2), -(SP)                           ; 1216
                            00D0  C2   DD 00022          PUSHL   208(R2)                                  ;
                                  04   DD 00026          PUSHL   #4                                       ;
               FF5C   CF          03   FB 00028          CALLS   #3, CHKPRO                               ;
                      04          50   E9 0002D          BLBC    R0, 2$                                   ;
                      50          01   D0 00030 1$:      MOVL    #1, R0                                   ; 1218
                                       04 00033          RET                                              ;
                                  50   D4 00034 2$:      CLRL    R0                                       ; 1222
                                       04 00036          RET                                              ;

; Routine Size:  55 bytes,    Routine Base:  CODE + 0077
;  187          1223    1 GLOBAL ROUTINE CHECK_W_ACCESS(SMQ)=
;  188          1224    1
;  189          1225    1 !++
;  190          1226    1 !
;  191          1227    1 ! FUNCTIONAL DESCRIPTION:
;  192          1228    1 !       This routine checks whether the requestor has W access to the specified
;  193          1229    1 !       queue.  OPER privilege and E access to the queue implicitly grant
;  194          1230    1 !       W access.
;  195          1231    1 !
;  196          1232    1 ! INPUT PARAMETERS:
;  197          1233    1 !       SMQ             - Pointer to SMQ.
;  198          1234    1 !
;  199          1235    1 ! IMPLICIT INPUTS:
;  200          1236    1 !       MBX             - Pointer to buffered mailbox message.
;  201          1237    1 !
;  202          1238    1 ! OUTPUT PARAMETERS:
;  203          1239    1 !       NONE
;  204          1240    1 !
;  205          1241    1 ! IMPLICIT OUTPUTS:
;  206          1242    1 !       NONE
;  207          1243    1 !
;  208          1244    1 ! ROUTINE VALUE:
;  209          1245    1 !       True if access is granted, false if denied.
;  210          1246    1 !
;  211          1247    1 ! SIDE EFFECTS:
;  212          1248    1 !       NONE
;  213          1249    1 !
;  214          1250    1 !--
;  215          1251    1
;  216          1252    2 BEGIN
;  217          1253    2 MAP
;  218          1254    2       SMQ:            REF BBLOCK;     ! Pointer to SMQ
;  219          1255    2
;  220          1256    2
;  221          1257    2 ! Test for W access to the queue.
;  222          1258    2 !
;  223          1259    2 IF CHKPRO(%B'0010', .SMQ[SMQ$L_OWNER_UIC], .SMQ[SMQ$W_PROTECTION])
;  224          1260    2 THEN
;  225          1261    2     RETURN TRUE;
;  226          1262    2
;  227          1263    2
;  228          1264    2 ! Test for E access to the queue.
;  229          1265    2 !
;  230          1266    2 IF CHKPRO(%B'0100', .SMQ[SMQ$L_OWNER_UIC], .SMQ[SMQ$W_PROTECTION])
;  231          1267    2 THEN
;  232          1268    2     RETURN TRUE;
;  233          1269    2
;  234          1270    2
;  235          1271    2 FALSE
;  236          1272    1 END;



                          0004 00000        .ENTRY  CHECK_W_ACCESS, Save R2                ; 1223
      52       04   AC  D0 00002        MOVL    SMQ, R2                                ; 1259
```

```
                  7E      0104  C2  3C 00006        MOVZWL  260(R2), -(SP)              ;
                          00D0  C2  DD 0000B        PUSHL   208(R2)                     ;
                                02  DD 0000F        PUSHL   #2                          ;
           FF3C   CF            03  FB 00011        CALLS   #3, CHKPRO                  ;
                  13            50  E8 00016        BLBS    R0, 1$                      ;
                  7E      0104  C2  3C 00019        MOVZWL  260(R2), -(SP)              ; 1266
                          00D0  C2  DD 0001E        PUSHL   208(R2)                     ;
                                04  DD 00022        PUSHL   #4                          ;
           FF29   CF            03  FB 00024        CALLS   #3, CHKPRO                  ;
                  04            50  E9 00029        BLBC    R0, 2$                      ;
                  50            01  D0 0002C  1$:   MOVL    #1, R0                      ; 1268
                                    04 0002F        RET                                 ;
                                50  D4 00030  2$:   CLRL    R0                          ; 1272
                                    04 00032        RET                                 ;

; Routine Size:  51 bytes,    Routine Base:  CODE + 00AE
;   238        1273  1 GLOBAL ROUTINE CHECK_E_ACCESS(SMQ)=
;   239        1274  1
;   240        1275  1 !++
;   241        1276  1 !
;   242        1277  1 ! FUNCTIONAL DESCRIPTION:
;   243        1278  1 !       This routine checks whether the requestor has E access to the specified
;   244        1279  1 !       queue.  OPER privilege implicitly grants E access.
;   245        1280  1 !
;   246        1281  1 ! INPUT PARAMETERS:
;   247        1282  1 !       SMQ             - Pointer to SMQ.
;   248        1283  1 !
;   249        1284  1 ! IMPLICIT INPUTS:
;   250        1285  1 !       MBX             - Pointer to buffered mailbox message.
;   251        1286  1 !
;   252        1287  1 ! OUTPUT PARAMETERS:
;   253        1288  1 !       NONE
;   254        1289  1 !
;   255        1290  1 ! IMPLICIT OUTPUTS:
;   256        1291  1 !       NONE
;   257        1292  1 !
;   258        1293  1 ! ROUTINE VALUE:
;   259        1294  1 !       True if access is granted, false if denied.
;   260        1295  1 !
;   261        1296  1 ! SIDE EFFECTS:
;   262        1297  1 !       NONE
;   263        1298  1 !
;   264        1299  1 !--
;   265        1300  1
;   266        1301  2 BEGIN
;   267        1302  2 MAP
;   268        1303  2       SMQ:            REF BBLOCK;     ! Pointer to SMQ
;   269        1304  2
;   270        1305  2
;   271        1306  2 ! Test for E access to the queue.
;   272        1307  2 !
;   273        1308  2 IF CHKPRO(%B'0100', .SMQ[SMQ$L_OWNER_UIC], .SMQ[SMQ$W_PROTECTION])
;   274        1309  2 THEN
;   275        1310  2     RETURN TRUE;
;   276        1311  2
;   277        1312  2
;   278        1313  2 FALSE
;   279        1314  1 END;



                                         0000 00000          .ENTRY  CHECK_E_ACCESS, Save nothing                  ; 1273
                   50         04   AC   D0 00002          MOVL    SMQ, R0                                       ; 1308
                   7E       0104   C0   3C 00006          MOVZWL  260(R0), -(SP)                                ;
                            00D0   C0   DD 0000B          PUSHL   208(R0)                                       ;
                                   04   DD 0000F          PUSHL   #4                                            ;
              FF09    CF           03   FB 00011          CALLS   #3, CHKPRO                                    ;
                      04           50   E9 00016          BLBC    R0, 1$                                        ;
                      50           01   D0 00019          MOVL    #1, R0                                        ; 1310
                                        04 0001C          RET                                                   ;
                                   50   D4 0001D 1$:      CLRL    R0                                            ; 1314
```

```
                                          04 0001F        RET                                                        ;

; Routine Size:  32 bytes,    Routine Base:  CODE + 00E1
```

```
1 GLOBAL ROUTINE CHECK_D_ACCESS(SMQ,SJH)=
1
1 !++
1 !
1 ! FUNCTIONAL DESCRIPTION:
1 !       This routine checks whether the requestor has D access to the specified
1 !       job in the specified queue.  OPER privilege and E access to the queue
1 !       implicitly grant D access.
1 !
1 ! INPUT PARAMETERS:
1 !       SMQ             - Pointer to SMQ.
1 !       SJH             - Pointer to SJH.
1 !
1 ! IMPLICIT INPUTS:
1 !       MBX             - Pointer to buffered mailbox message.
1 !
1 ! OUTPUT PARAMETERS:
1 !       NONE
1 !
1 ! IMPLICIT OUTPUTS:
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 !       True if access is granted, false if denied.
1 !
1 ! SIDE EFFECTS:
1 !       NONE
1 !
1 !--
1
2 BEGIN
2 MAP
2       SMQ:            REF BBLOCK,     ! Pointer to SMQ
2       SJH:            REF BBLOCK;     ! Pointer to SJH
2
2
2 ! Test for D access to the job.
2 !
2 IF CHKPRO(%B'1000', .SJH[SJH$L_UIC], .SMQ[SMQ$W_PROTECTION])
2 THEN
2     RETURN TRUE;
2
2
2 ! Test for E access to the queue.
2 !
2 IF CHKPRO(%B'0100', .SMQ[SMQ$L_OWNER_UIC], .SMQ[SMQ$W_PROTECTION])
2 THEN
2     RETURN TRUE;
2
2
2 FALSE
1 END;
```

```
                0004 00000       .ENTRY  CHECK_D_ACCESS, Save R2              ; 1315
      52    04 AC D0 00002       MOVL    SMQ, R2                              ; 1353
      7E  0104 C2 3C 00006       MOVZWL  260(R2), -(SP)                       ;
      50    08 AC D0 0000B       MOVL    SJH, R0                              ;
          0144 C0 DD 0000F       PUSHL   324(R0)                              ;
               08 DD 00013       PUSHL   #8                                   ;
FEE5  CF       03 FB 00015       CALLS   #3, CHKPRO                           ;
      13       50 E8 0001A       BLBS    R0, 1$                               ;
      7E  0104 C2 3C 0001D       MOVZWL  260(R2), -(SP)                       ; 1360
          00D0 C2 DD 00022       PUSHL   208(R2)                              ;
               04 DD 00026       PUSHL   #4                                   ;
FED2  CF       03 FB 00028       CALLS   #3, CHKPRO                           ;
      04       50 E9 0002D       BLBC    R0, 2$                               ;
      50       01 D0 00030  1$:  MOVL    #1, R0                               ; 1362
                  04 00033       RET                                          ;
               50 D4 00034  2$:  CLRL    R0                                   ; 1366
                  04 00036       RET                                          ;

; Routine Size:  55 bytes,    Routine Base:  CODE + 0101
;  334         1367  1 END
;  335         1368  0 ELUDOM




;                                 PSECT SUMMARY
;
;       Name                  Bytes                    Attributes
;
;  COMMON                          5024  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  OVR,NOPIC,ALIGN(2)
;  CODE                             312  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)




;                           Library Statistics
;
;                                         -------- Symbols --------      Pages        Processing
;       File                              Total   Loaded   Percent      Mapped       Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1          18619      43         0       1000          00:01.4




;                                 COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:CHECKPROT/OBJ=OBJ$:CHECKPROT MSRC$:CHECKPROT/UPDATE=(ENH$:CHECKPROT)

; Size:           312 code + 5024 data bytes
; Run Time:          00:13.7
; Elapsed Time:      00:50.7
; Lines/CPU Min:      5991
; Lexemes/CPU-Min: 49703
; Memory Used:  212 pages
; Compilation Complete
```

0191 AH-BT13A-SE
VAX/VMS V4.0

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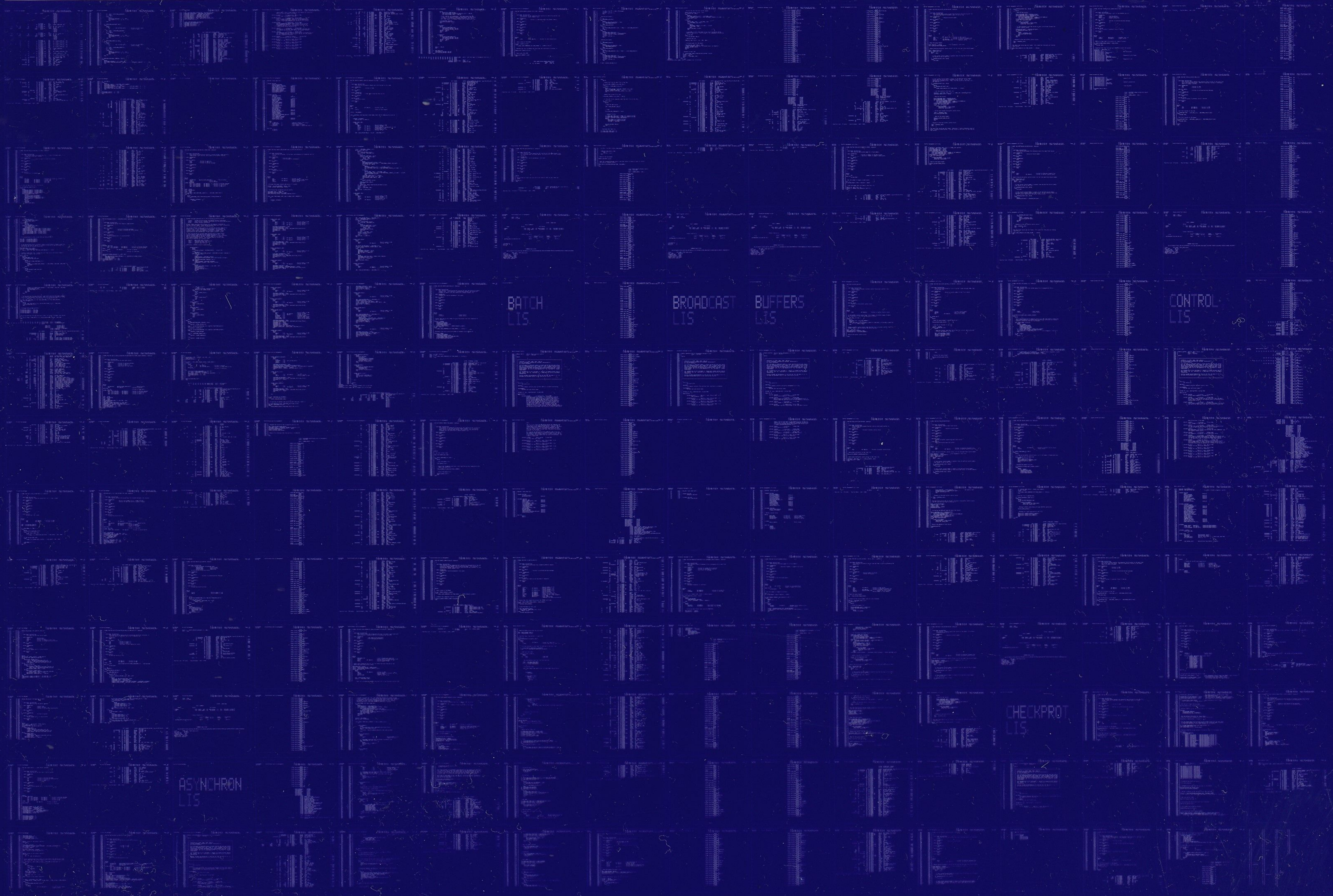

BATCH
LIS

BROADCAST
LIS

BUFFERS
LIS

CONTROL
LIS

CHECKPROT
LIS

ASYNCHRON
LIS